



TRAFICAM[®]
WIRELESS VERSION

- SPECIFICATIONS -

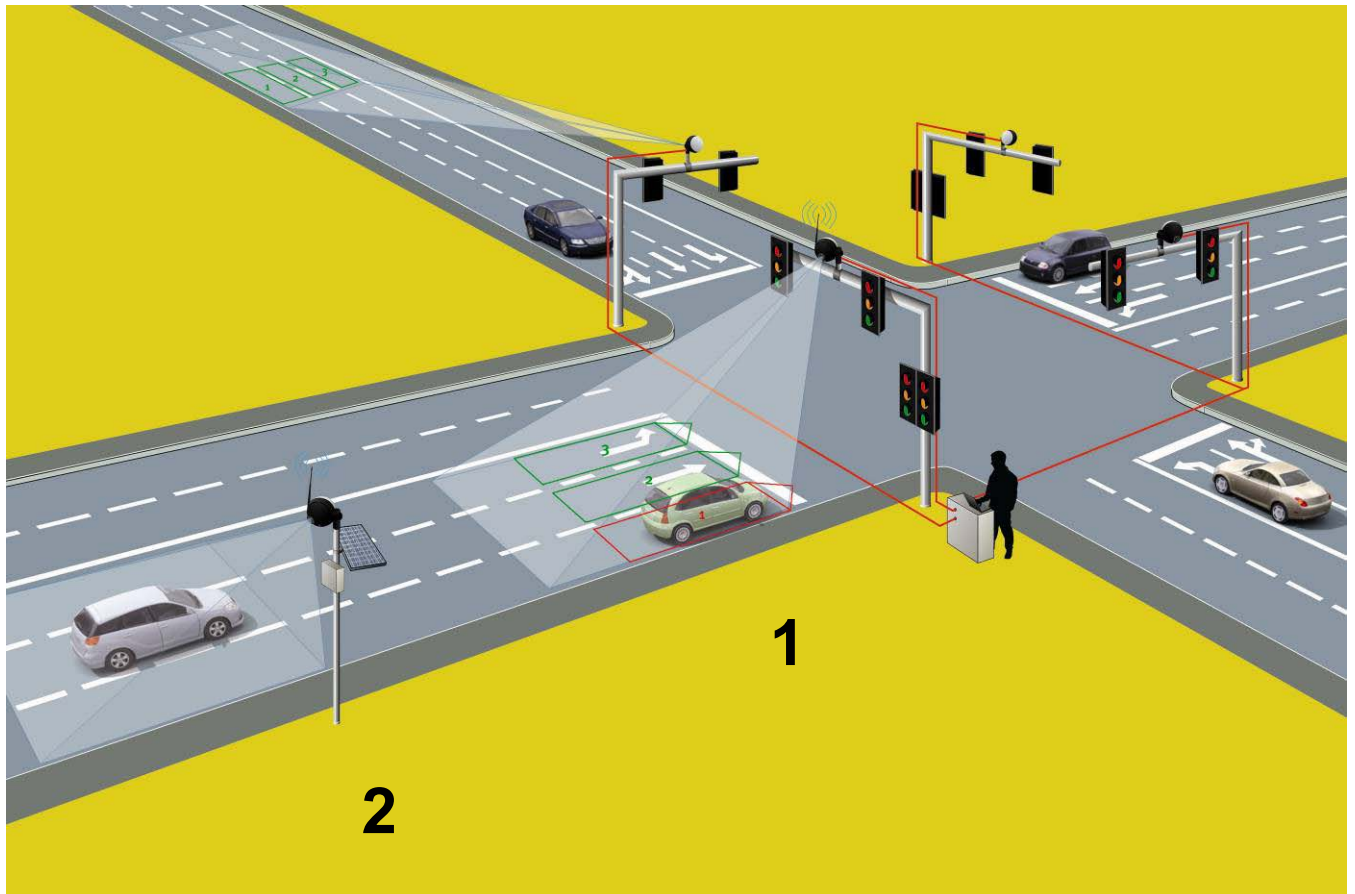


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TRAFFIC VIDEO DETECTION

BASIC FUNCTIONALITIES:

1. Stop Bar Detection: vehicle presence detection at intersections with traffic lights
2. Advance Detection: vehicle presence detection nearby intersections with traffic lights



MAIN CHARACTERISTICS:

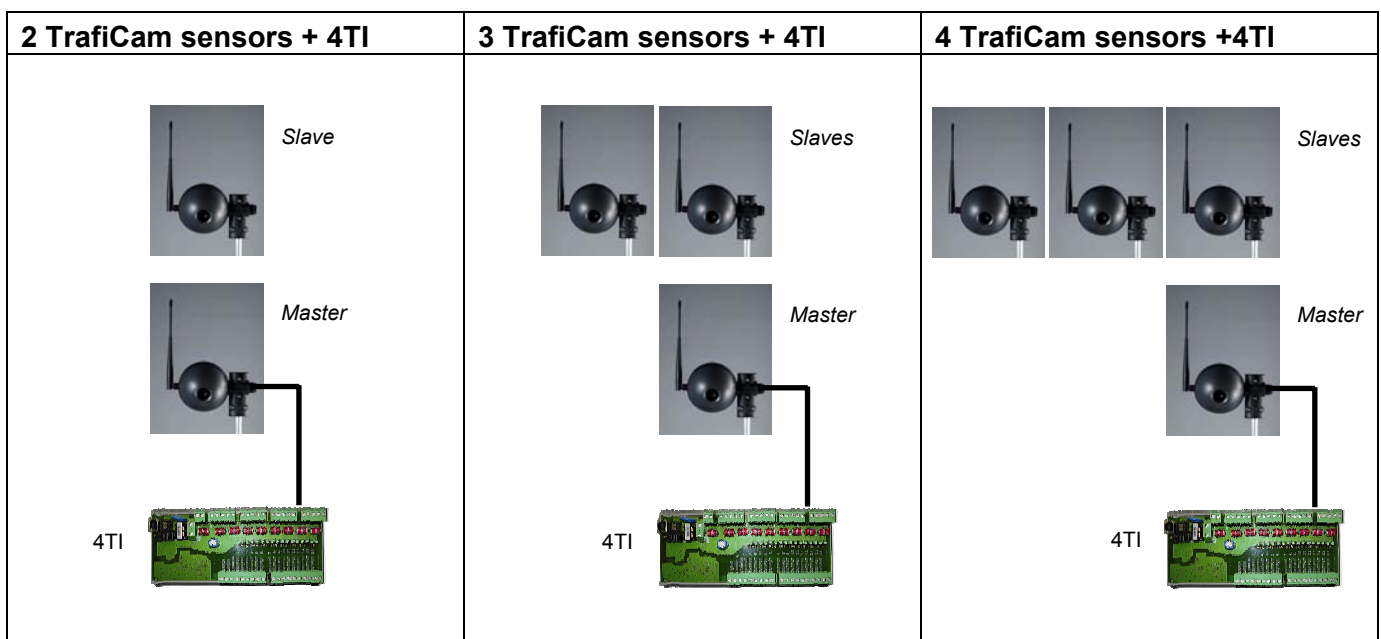
- » Two frequencies:
 - TrafiCam Wireless 868MHz: for a.o. Europe, South-Africa, Australia, China, ...
 - TrafiCam Wireless 915MHz: for a.o. USA, Canada, Mexico, ...
- » Power Supply:
 - TrafiCam Wireless 868MHz: **12-26VAC/DC**
 - TrafiCam Wireless 915MHz: **14-26VAC/DC**
- » Changes compared to hard-wired TrafiCam:
 - On the back PCB, the output connector has been replaced by a wireless module for RS485 Wireless Extended communications
 - An antenna has been added



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- » The maximum advised communication distance (direct line of sight required!) is **100m/300ft** for the TraftiCam Wireless 868MHz and **300m/1,000ft** for the TraftiCam Wireless 915MHz.
- » A wireless system consists of at least 2 Wireless TraftiCams and a 4TI interface. One of these Wireless TraftiCams must be hard-wired to the 4TI (power supply, RS485) = **master** TraftiCam. The other(s) only need(s) local power supply = **slave** TraftiCam(s).
- » Possible system architectures:



NOTES:

- » In these license free bands, various channels are available. The current hardware and firmware does not have the possibility to switch to another channel, so separate TraftiCam Wireless systems need to be installed at a certain distance from each other to avoid mutual interference. This is minimum **300m/900ft** (TraftiCam Wireless 868MHz) or **900m/3,000ft** (TraftiCam Wireless 915MHz).
- » The system must be installed above the traffic, at minimum **5m/15ft height**.
- » The antenna must be positioned vertically upwards.



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REGULATORY ISSUES:

- EMC: CE directive **2004/108/EG, ETSI EN 301 489-3**
- FCC: FCC part 15 class A
- Shock & vibration NEMA II specs
- All materials weatherproof (UV-resistant)
- Housing waterproof to IP67

CONNECTION BETWEEN MASTER TRAFICAM AND 4TI:

- Hard-wired
- Recommended type of cable: Shielded Twisted Pair (STP), UV resistant
- Required number of wires: 4 wires + shielding
- Minimum/Maximum wire diameter: 0,3mm/2mm
- Minimum/Maximum cable diameter*: 5mm/9,2mm
- Maximum cable length**: 300m
- Note: cable is not standard included



* Max. cable diameter determined by free space to pull the cable into the TraftiCam connection part
** Highly depends on cable quality and local conditions, i.e. local sources of interference
Note that there can be a significant voltage drop when long distances are bridged

Don't forget to visit our dedicated website @ www.traficam.com!!!

